

Improving HF GFlash Simulations at CMS

Monday, 9 June 2014 11:30 (20 minutes)

Until now GFlash Simulations at CMS are used for studying electron and pion plus electromagnetic showers in the pseudorapidity range $3 < \eta < 5$.

It has been proved that GFlash Simulations are 15% faster than Shower Library Simulations and that they have a better agreement with experimental data. Our attempt is to make our simulations run two times faster and enhance them for a larger range of pseudorapidity.

So in the first step in our work we need to be sure there is a linear relation between the incoming energy of the electron/pion and the response in our photomultipliers detectors. We found that for both of them the response is linear, so now we are able to forward in enhancing our program.

Primary authors: IBARRA GARCÍA PADILLA, Eduardo (Universidad Nacional Autónoma de México); RAHMAT, Rahmat (University of Mississippi)

Presenter: IBARRA GARCÍA PADILLA, Eduardo (Universidad Nacional Autónoma de México)

Session Classification: Session 1